



Topics to be covered



1 Basic calculation.

2 Genral guidance.

3

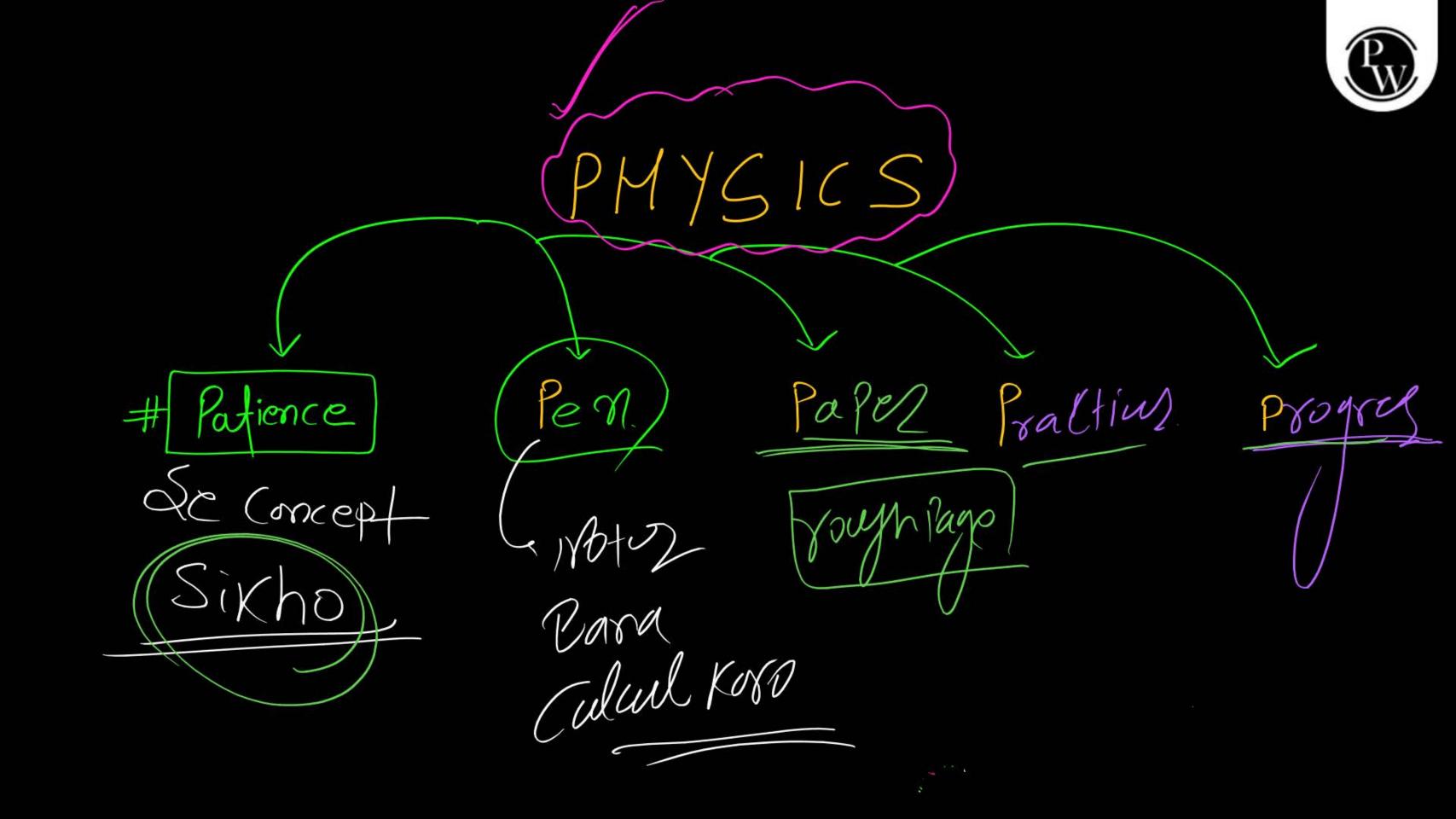
4

Math is a language

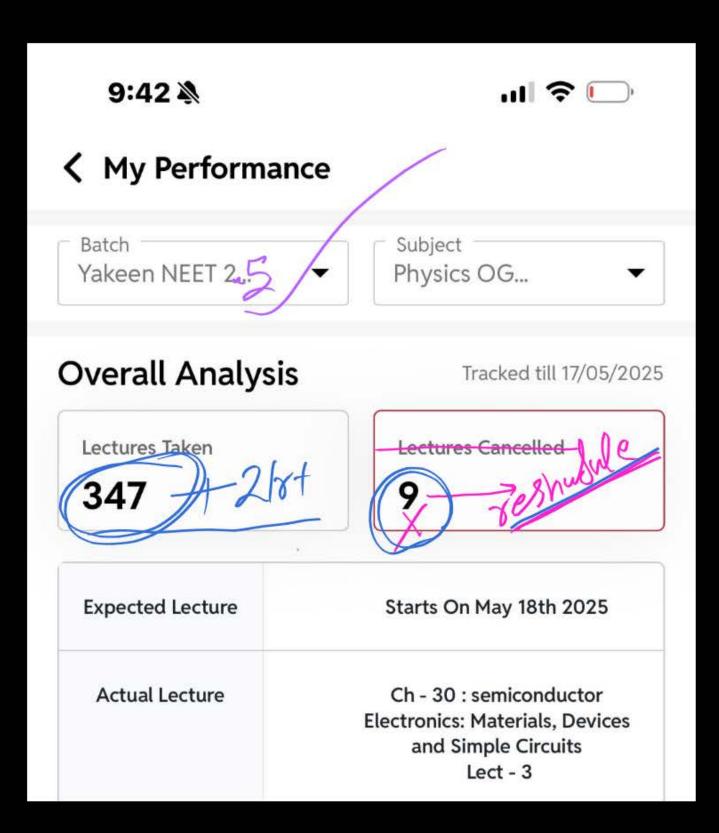
Basic math

2 times (over)

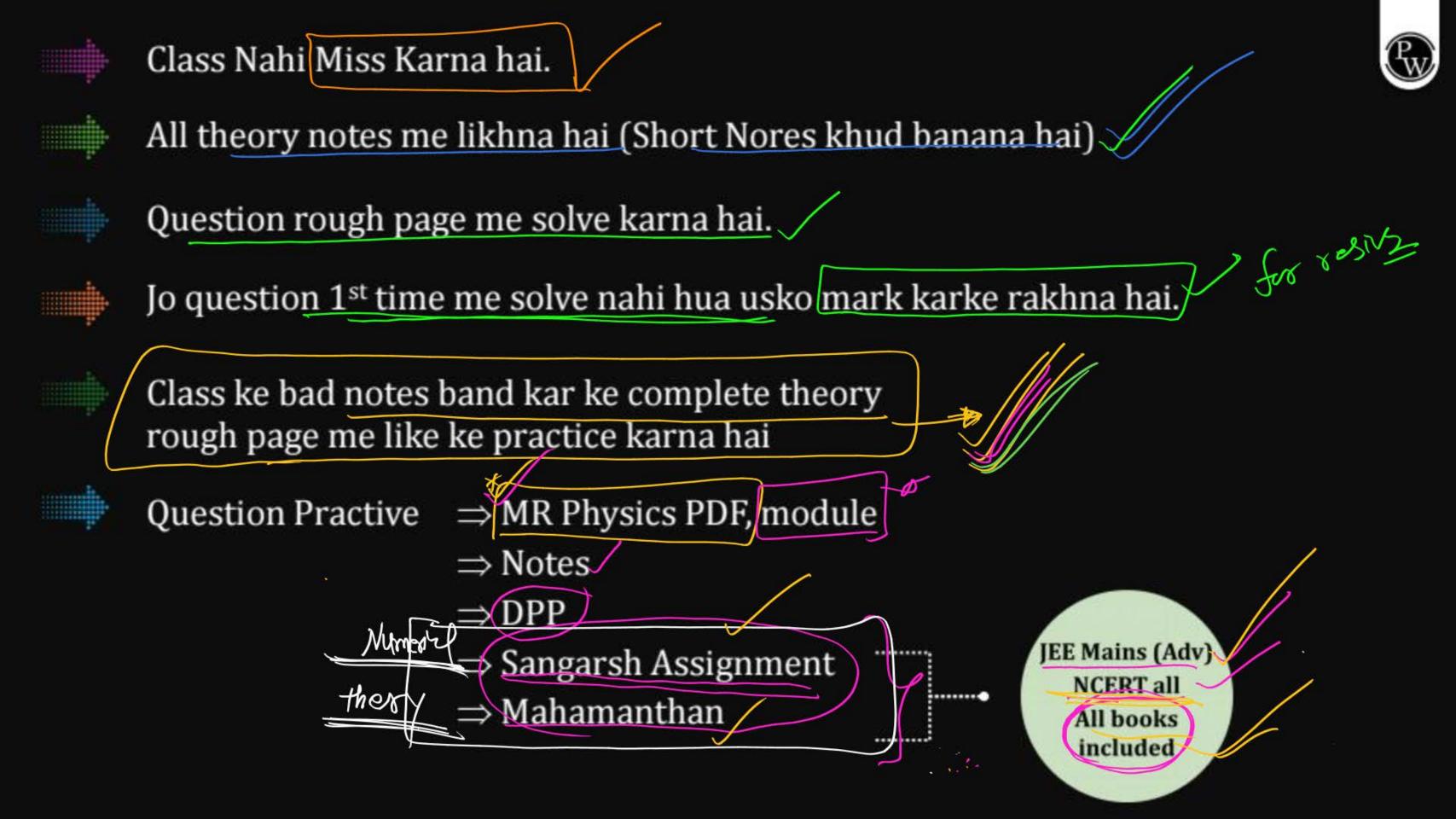
concept



a sirt physics 2 Langarah + Mahamanthan -10000 Question -6000++3/w8sme. Concept Ko feel Se Padhra hai, Physics se khema hal Ghall Par Bhot Sare question Karna charte ho; 以 lecture Se Pare san Nahi hoge. 攻 ho/ & advance Tax Jana hal. - re Se Start Kanne Ke life ready











- (1) Ye to easy hai, class nahi karna PDF se ho jayega
- (2) Bina proper question read kiye answer dena
- (3) Half calculation ke bad sochna, ho to gya isse ye aa jayega (Bio me direct answer dikh jata hai)
- (4) H/W / question practice nahi kar rha, (sirf teacher ke question solve karne se nahi hoga)
- (5) Direct tough question karna hai, pahle basic ka master hona hoga.
- (6) Backlog hai to test nahi diya
- (7) Life me dosti, pyar bhi jaruri hai.
- (8)MM Fresh hone ke liye 20-25 minute to insta/youtube jaruri hai



Success Margdarshan



30-45 minute every week throughout the year



Daily Challenger

2-3 question in every class solution in next class or next to next Critical thinking develope ho jaygi



Maha-Manthan

NCERT deep line / HCV objective Theory me problem nahi aayga



Sangarsh-Assignment



JEE Mains (80-90%) advance, level up question doubts of topper. Solution mai dunga to koi problem nahi 200° 3 $^{\circ}$



MR Physics PDF

Chapter wise extra question nahi likhna hai



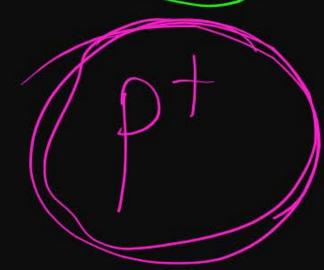
Selective level up question will discuss in class.





Complete Concept

Language/ Practice



NEET PHYSICS







tast Karte has



What is the value of 50 by half?

- 50
- 25 X 36%
- 3 / 100
- 4 200

$$\frac{50}{2}$$



Maha-Basic



Find x

$$\frac{4}{(1/x)} = 3$$

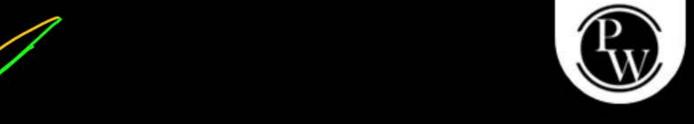
$$\frac{4}{2}$$
 = 3

$$\mathcal{N} = \frac{3}{4}$$

$$\frac{y}{(1/3)} = 4$$

$$\frac{y}{(1/3)} = 4$$

$$(\frac{y}{3}) = \frac{4}{3} AR$$



$$\frac{4}{9b} = \frac{ap}{bc}$$

$$\pi^2 \simeq 10$$

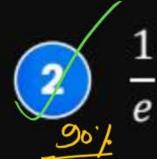
C=2.71



Which is greater (a)
$$\frac{1}{\pi}$$
 or (b) $\frac{1}{e}$

$$\frac{1}{\pi}$$

$$\frac{1}{1} = \frac{1}{3.19} = \frac{1}{3.19} \times \frac{10}{10}$$



$$\frac{1}{6} = \frac{1}{2.71} = 0.37$$

Can't say

$$\frac{1}{\chi \uparrow} = \text{decred}$$

$$\sqrt{\frac{1}{\sqrt{2}}} > \frac{1}{2}$$

$$\frac{1}{10} = 0.1$$

$$\frac{1}{100} = 0.01$$

$$\frac{1}{1000} = 0.001$$



What is the value of $\sqrt{50} + \sqrt{50}$?

- $1 \quad 4\sqrt{50}$
- $2 \sqrt{100}$
- 3 √200 (30°).
- **4** 50



$$\int 50 + \int 50 = \int 50 \left(1 + 1 \right)$$

$$\left(\sqrt{\frac{2}{y-2}}\right)$$

$$\sqrt{50} \times \sqrt{50} = 50$$





$$\pi^{2} = (0.1)^{2}$$

$$= 0.1 \times 0.1 = 0.01$$

$$= \frac{1}{10} \times \frac{1}{10}$$

$$\frac{1}{\eta^2} = 0.01$$

$$\frac{2}{2} = \frac{4}{2}$$

$$\frac{2}{2} = \frac{4}{8}$$

$$\frac{2}{2} = \frac{3}{2}$$



Rule of Power [Exponent]



1. 9f Power of any non-zero number is zero then it will be equal to 1

$$2^{\circ} = 1$$
 $8^{\circ} = 1$ $10^{\circ} = 1$ $e^{\circ} = 1$

2. In Product if Base is same then Power will add.

$$\mathcal{K} = \mathcal{K} \cdot \mathcal{K}$$

$$\frac{10^{2} \times 10^{6}}{10^{2} \times 10^{6}} = \frac{10^{12}}{10^{8}}$$

$$10^{4} \times 10^{3} = 10^{7}$$

$$10^{4} + 10^{3} = 10^{7}$$



Find value of $10^2 + 10^3$?

- 10550%
- 2 10⁶ X
- $\boxed{3 \left(1.1 \times 10^3\right)}$
- 4 1010

$$10^2 + 10^3 = 10^5$$

$$|0^{2} + 10^{3} = |00| + |000|$$

$$= |100|$$

$$= |146| \times (1000)$$

$$= |11| \times |0|$$

$$= |11| \times |0|$$

3. Division property of exponent (& wes)

if Pase is same in division then Power will subtract.

$$\frac{10^{3}}{10^{2}} = 10^{3-2} = 10$$

4. Negative property of power

$$\mathcal{X} = \frac{1}{2}$$

$$10^{3} = \frac{1}{10^{-3}}$$

$$10^{3} = \frac{1}{10^{-3}}$$

$$\frac{10^{19}}{10^{31}} = 10^{19} \times 10^{31} = 10$$

$$= 10$$

$$= 10$$

Pw

5. Power of power

$$\left(x_{j}\right)_{m}=x_{n\times m}$$

$$(2^3)^4 - 2^{12}$$

$$4^{\frac{1}{2}} = \sqrt{4} = 2$$
 $(2^{\frac{2}{2}})^{\frac{1}{2}} = 2$

6. Fractional Power

$$\left(\chi\right)^{3/2} = \left(\chi^{3/2}\right)^{1/2} = \left(\chi^{1/2}\right)^{3/2}$$

$$(4)^{3/2} = (4^{\frac{1}{2}})^{\times 3}$$

$$= (2)^{3} = 8$$

$$(8)^{2/3} = (2^{\frac{3}{2}})^{\frac{3}{3}} = 2^{2} = 4$$

$$>$$
 (8)^{2/3} =

MN

 \triangleright (125)^{2/3} =



$$\triangleright$$
 (4)^{4/3} =

$$(64)^{2/5} =$$

$$(1/2)^{-3} =$$

$$(4)^{-3/2} =$$

$$>$$
 (32)^{2/5} =

$$\triangleright$$
 (64)^{2/3} =

$$\triangleright$$
 (25)^{3/2} =

$$\triangleright$$
 (216)^{2/3} =

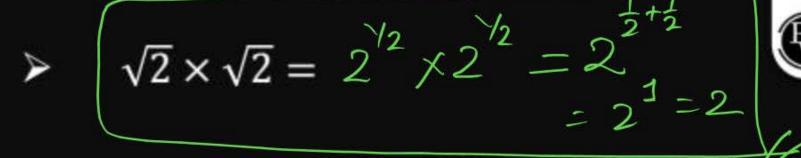
$$\triangleright$$
 $\sqrt{2} = |.4|$

$$\sqrt{3} = 1.73$$

$$\sqrt{5} = 2.23$$

$$\sim$$
 $\sqrt{6} = 2.44$

$$\Rightarrow \pi^2 = 1_{\text{O}}$$



$$\sum \frac{2}{\sqrt{2}} = \frac{\sqrt{2} \times \sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}}$$



Solve the expression

(i)
$$\frac{9^2-9}{9}$$

(v)
$$\frac{9^{3/2}-6}{7}$$

(ii)
$$\frac{13^2 - 12^2}{13 + 12}$$

(vi)
$$(2^{\circ} - 3)^2 - 1$$

(iii)
$$\frac{21^2 - 21}{21}$$

$$(vii)\frac{12}{\sqrt{2}}$$

$$(iv) \frac{\sqrt{2} + \sqrt{2}}{\sqrt{2}}$$

$$(viii)\frac{x^2}{81} = \frac{9}{x}$$





Find value of

(i)
$$10^2 - (-10^3) =$$

(iii)
$$27 + 7^0 =$$

(v)
$$3-1^2 =$$

(vii)
$$(4)^{5/2} =$$

(ix)
$$t^2t^3 =$$

(x)
$$(27)^{1/3} =$$

(ii)
$$9^0 + 9 =$$

(iv)
$$4^3 - 4^2 =$$

(vi)
$$(8)^{2/3} =$$

(viii)
$$(27)^{2/3} =$$

(x)
$$\frac{1}{x^2\sqrt{x}} =$$

(xi)
$$(9)^{5/2} =$$



Compare (a) 0.4

(c)
$$0.400 = \frac{400}{1000} = \frac{4}{10}$$

which is great ??

$$0.4 = \frac{4}{10}$$



Maha-Basic



$$\frac{1}{10} =$$

$$\frac{1}{100} =$$

$$\frac{1}{1000} =$$

$$\frac{1}{10^4}$$
 -

$$\frac{1}{10^{-5}} =$$



Effect on Power due to Shifting of Decimal Place



$$2.43 \times 10^{2} = 24.3 \times 10^{1}$$

$$\frac{(2.43)\times10^{2}\times10}{19} = 24.3\times10^{1}$$

$$\geq 0.243 \times 10^{3}$$

$$-7.839\times10^{4}=7$$





Find the value of *y* in given expression:

$$4.38 \times 10^2 = y \times 10^4$$

$$23.4 \times 10^{-2} = y \times 10^{2}$$

$$501.3 = 50.13 \times 10^{y}$$

$$48.6 = 4860 \times 10^{y}$$

$$0.38 = 0.0038 \times 10^{y}$$

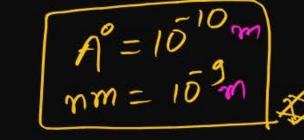
$$0.038 = 3800 \times 10^{y}$$

$$0.0380 = \frac{102}{3800} = \frac{3800 \times 102}{2800}$$

$$\frac{\sqrt{4.38 \times 10^2 \times 10^2}}{10^2} = \frac{0.0438 \times 10^4}{10^2}$$

$$4.38 \times 10^2 = 0.0438 \times 10^4$$

$$50|.3 = (50|.3) \times 10 = 50.13 \times 10$$





$$4 \mu m =$$
 _____ Å

$$3\sqrt{8} = ?$$

$$\sqrt{3.6 \times 10^{-5}} =$$

$$0.4 \text{ C} = \underline{} \times 10^4 \text{ C}$$

$$0.4 C = \frac{4000}{0.4} \times 10^{-4} C$$

$$0.4 C = \frac{4000}{0.4} \times 10^{-4} C$$

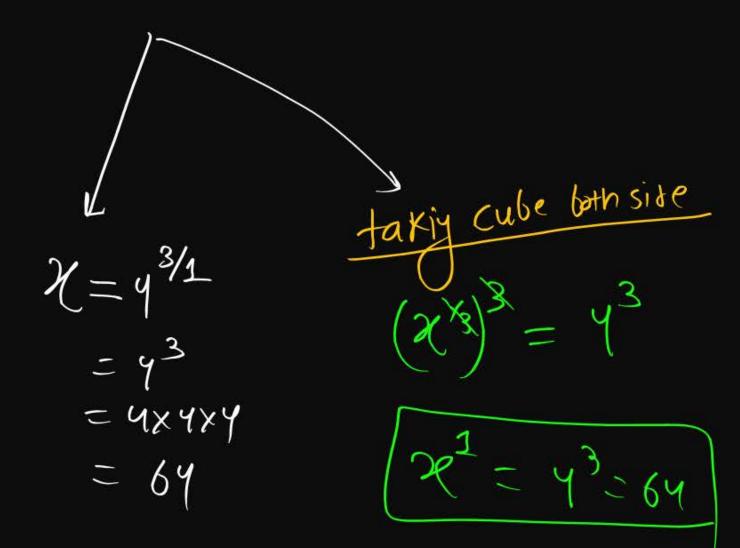
$$0.4 C = \frac{4000}{0.4} \times 10^{-4} C$$

104



Changing the side of Power:

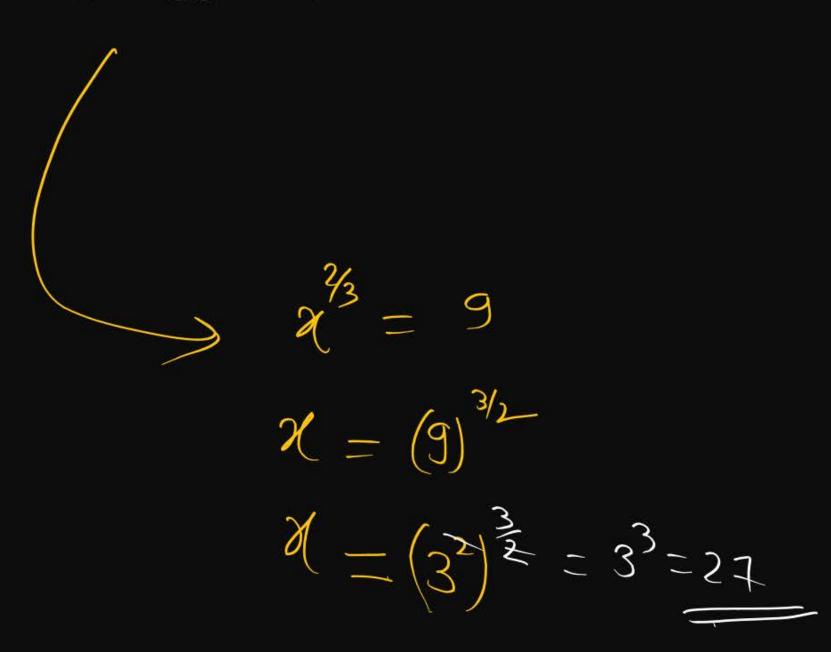
(i) Find x in given expression: $(x)^{1/3} = 4$



$$\frac{1}{2} = \frac{1}{2}$$



Find *x* if
$$(x)^{2/3} = 9$$





Maha-Basic





Find *x* in given expansion:

$$(x)^{\frac{3}{4}}=27$$

$$(x)^{\frac{3}{2}}=8$$



If base is same both side then power will be same.



1. If $3^{6-x} = 27$, find value of *x*.

$$3^{6-x} = 3^{3}$$
 $6-x = 3$
 $6-3 = x = 3$

If $2^{y-4} = 64$, find value of *y*.

$$3^2 = 9$$

 $3^3 = 27$





Find value of *x*:

(i)
$$4^{x/2} = 8$$

(ii)
$$10^{x/4} = 10^5$$

(iii)
$$\frac{10^7}{10^{x/2}} = 10^6$$

(iv)
$$x^{-2/5} = \frac{1}{9}$$

$$2^{2 \times \frac{\pi}{2}} = 2^{3}$$

$$2^{2} = 2^{3}$$

$$2^{2} = 2^{3}$$

$$3^{2} = 2^{3}$$

$$3^{2} = 2^{3}$$

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$$3^{2} = 2^{3}$$





If
$$(x-4)^{2/3} = 4$$
. Find x.

$$\left(\gamma - \gamma\right)^{2/3} = \gamma$$

WEET PYD

magnetic field on axis of ping

Find value of x for given expression?

$$27 = (5 + x^2)^{3/2}$$

$$27 = (5+x^2)^{3/2}$$

$$(5+\chi^2) = (2+)^{2/3}$$

$$(5+x^2) = (3^3)^{\frac{2}{3}} = 3^2$$

$$5+x^2 = 9$$

$$32 = 3-5$$

$$2 = 3-5$$

$$2 = 4$$

$$2 = 4$$





If
$$\left(\frac{a}{b}\right)^{x-1} = \left(\frac{b}{a}\right)^{x-3}$$
. Find x .



Find value of
$$0.36 \times 175$$
?

$$\Rightarrow$$
 0.28 × 200 = ?

$$0.36 \times 175 = ??$$

$$\frac{36}{120} \times 175 = 63$$



Convert decimal to fraction:

$$0.2 = \frac{2}{10}$$

$$0.4 = \frac{9}{10}$$

$$0.5 = \frac{5}{10}$$

$$0.75 = \frac{75}{100}$$

$$0.33 = 33$$
 $0.66 = 66$

- 0.25
- 1.33
- 1.50
- 2.51
- .33

Multiply this

$$12 \times 0.67 =$$

$$16 \times 0.75 =$$

$$0.125 \times 24 = \frac{125 \times 243}{1000}$$

$$0.66 \times 18 =$$

$$0.33 \times 21 =$$

$$25 \times 0.6 = 25 \times \frac{6}{10} = \frac{130}{10} = 15$$

$$1.33 \times 25 =$$



$$(0.4)^2 =$$

$$\sqrt{0.49}$$
 =

$$\int 0.45 = \int \frac{49}{100} = 1$$

$$\sqrt{0.64} =$$

$$(0.02)^{2} = \left(\frac{2}{100}\right)^{2} = \frac{4}{104} = \frac{410}{100}$$

Question (Level UP)



Find value of $16^{-1/4} + 4^{-2}$?





Find value of
$$n$$
; if $\frac{2}{n} = 4 + \frac{6}{7}$.



Find value of n in given expression

$$\frac{2}{n} = 4 + \frac{6}{7}$$





Solve the expression

$$(ix) 2^x = \frac{1}{8}$$

(x)
$$\frac{0.4}{0.01}$$

$$(xi) (4^{\circ} + 4^{-1}) \times 2$$

(xii)
$$\sqrt{1 - 0.19}$$





Addition Subtraction with Fraction

(i)
$$0.74 - 0.08 = ??$$

(iii)
$$0.94 + 0.027$$

(v)
$$\frac{0.8}{0.6}$$

(vi)
$$0.4 \times 0.02$$





To jyonometry